

## ABSTRACT OF THE DISCLOSURE

The authentication system has a signing station and a certifying station. The signing station divides the data to be transmitted into a plurality of data, a hash unit creates  
5 a plurality of authenticators by applying a different one-way function to each of the data. In the certifying station, a separating unit divides the data into a plurality of data, a hash unit creates a plurality of authenticators by applying a different one-way function to each data, and a comparing unit  
10 compares the authenticators prepared anew with the authenticators separated from the received data and checks the authentication of the data from the comparison.